



Ø BEAT



COLO. SPRINGS,
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MARCH 1982

Education . . . A Rewarding Experience!

HAMS GO TO SCHOOL

Want a new brand of fun? Why not try to introduce some new folks to ham radio. You've got quite an audience out there if you would like to give it a try. The audience is in our school system.

At the start of the school year my son mentioned to his teacher that his dad was a ham radio operator. During a parent-teacher conference he asked me about the radio set-up and what it was all about. I invited him over to see the shack. That was all it took to get him hooked. One thing led to another and soon I had talked myself into giving a demonstration at school.

As all of you are aware, radio as a teaching medium has almost endless possibilities. It can be geared to any age level and any ability level. The students in the class were to be 4th, 5th and 6th grade. Rather than get technical, I felt that I should try to get them involved and interested in the broad scope of our hobby. I called Don Lohse to ask if he would be interested in helping. This way we could break up the class into two small groups to cut down confusion. Don readily agreed to help.

Don and I generally agreed to let the class dictate what they wanted to do, but we also did some homework and planning so as to have some direction to our demonstration. We decided to set up a station to make a few contacts, get involved in some of the constraints that Mother Nature puts on us, talk about our place in the community, have a ham radio geography lesson, talk about time, demonstrate C.W., talk about wave length, and even compare ham radio with C.B.

Before we attempted anything else, I got in touch with the principal to make sure he was aware of what we were going to do. Very bad move not to do so. This eliminates bad times in the event of a C.Q. over the school's p.a. system.

This hurdle over, we actually did a mini Field Day operation. I checked out the area and found we could easily set up a shortened 11M vertical antenna and run the coax right into the resource center. Beware of Murphy during all this (windows nailed shut) and try to outwit him! We set up the rig and other gear right on a table in the resource center. We also took along some other gear — a c.p.o. and key, 2M rig, QSL cards from all over the world, a 24 hour clock, a couple of Callbooks and some ARRL literature.

The first half hour or so of class we all just sat around and talked about ham radio. How do you make a contact? What is CW? Where is Nepal? What is UTC? Is it earlier or later in Japan? How far do radio waves travel? What are radio waves? When they all got a feeling of the vast scope of ham radio, we broke into the two groups. One group set about to make a QSO and the other learned their names in CW.

What is really neat about our hobby is that other hams are turned on too. Don't be afraid to call CQ and see what happens. Our first QSO with Mort had all the kids wanting to say hello. He had them all buzzing with excitement as his own love of the hobby was evident. We had a very long chat and the kids asked many questions. Others called us too when they heard all the students on the air. We stayed long past the lunch bell.

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(*Two-year board terms began October 1981)

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of every month at the First United Methodist Church, 420 N. Nevada, at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Don Lohse KBØKQ, 1410 E. LaSalle, Colorado Springs, CO 80907 635-7469

MEETING MINUTES

The February meeting of the PPRAA was brought to order at 7:40 by Board Chairman Les Borst. President Al Bailey arrived a few minutes later, commuting to Denver plays havoc on schedules!!! Don KBØKQ gave the Education Committee report on the continuing upgrade classes and announced the spring novice class would get started in mid-March. There were no reports from the RFI or PR committees.

Al ADØZ reported on Swapfest preparations with date set for the 18th of April with the 25th as backup. Fees for tables were set at \$5.00. The food concession was discussed, and proposal made by Rosie WAØMNL will be discussed at the next board meeting.

The election to fill the vacant VP and board member offices was held, and Karl White K4DQ was elected as VP, and Mark Richardson KAØJXW elected to the board.

The resurrection of a PPRAA net was discussed, possibly on 10 meters instead of 2. It was decided to meet at 28845 at 0230Z on Feb. 18 (7:30 local Feb. 17) to continue the discussion.

Club jackets and caps were discussed, with ADØZ bringing some samples to look at and quoting some prices.

After break, KAØFOZ, Greg, gave a good program on radio astronomy, which brought out questions and comments from the members.

The meeting was adjourned at 9:57 p.m.

Respectfully submitted,
Don KBØKQ for KAØFOZ

MEETING NOTICE

The March meeting of the Pikes Peak Radio Amateur Association will be held on March 10 at 7:30 p.m. at the First United Methodist Church at Boulder and Nevada. The program will be a discussion of the responses to the club survey, as contained in this issue of Zero Beat. All members and other interested persons are invited to attend.

MEMBERSHIP APPLICATION

On the bottom of page 5 is the membership form for the club for 1982. Dues remain the same as last year — \$12.00 for single and \$15.00 for family membership. Please fill in all the information so our records are correct. Members have until March 1 to renew their membership so as not to miss any Zero Beat issues. Take a moment and fill out the form — so you don't forget to later.

SILENT KEY

It is with sadness that we note the passing of Irvin Ebel WØKWV. Irv was a strong supporter of the PPRAA and an active ham. Our sympathies to his family and friends.

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New Kenwood TS 530S \$659.
Yaesu Land Liner phone patch \$60.
Yaesu YD 844 desk mike \$30.
MFJ 260 300W dry dummy load \$25.
MFJ 250 2KW dummy load (transformer oil-no PCB) \$28.
Bearcat 210 XL 18 channel programmable scanner AC/12V \$229.
Ten Tec Omni C \$1,035.
Ten Tec Delta \$735.
Ten Tec Argosy \$465.
AEA MT-1P Code Trainer p/s-chrg \$125.
AEA MT-1 Code Trainer \$90.
All AEA equipment 10% off list.
Janel QSA-5 2 meter preamp \$38.

NEW EQUIPMENT IN STOCK

Kenwood TR-7850 40W \$379.
Kenwood TR-7730 mini 25W \$297.
Kenwood TR-8400 mobile rig \$439.
Kenwood TR-2500 HT w/ ST-2 Desk Stand \$369.
New Santec 144 2 M HT \$318.
New Santec 440 MHz HT \$345.
Icom 25A mini size 2M w/TT mic Reg. \$369 Now \$310.
Icom 2AT HT w/ wall chgr, TT pad, nicads, duck Reg. \$269 Now \$239.
Icom 2A same as above w/o TT pad Reg. \$239 Now \$218.
Extra Icoms batteries, chrgs. & etc. in stock.
Azden PCS 3000 w, TT pad \$288.
KDK 2025 25W w/ TT mic \$272.
New Azden PCS 300 HT \$292.
New AEA MBA RO code/RTTY Reader \$263.

USED VHF EQUIPMENT

Azden PCS 3000 w/ TT pad \$275.
Wilson MK 4 6 ch HT, wall chgr, 1 xtra battery, TT pad \$125.
(2) Wilson 1402 SM HT \$100.
w/ desk charger \$125.
Heath 2 meter linear \$35.
Telco Commander 180-2 meter FM amp. 10 in 80 out \$80.

Icom 211 2 meter FM-CW-SSB, AC & DC \$349.
Kenwood TR-7800 \$300.

Portables

Drake TR 22, mic, LC case, charge cord & mobile cord \$65.

USED HF EQUIPMENT

Yaesu FT-101 EX-mint-spent \$150 on factory recon. \$625.
Yaesu FT-101 E-nice condition \$565.
Drake TR4C Xcyr, excellent cond., no p/s. Factory recondition 6 mos. ago cost \$150. \$325.
Drake 2B rcvr, nice condition \$125.
Drake R4A, T4X, M5-4 p/s & spkr. Transceivers as pair & ETEK FR-4 Digital Readout. All cables, extra set of all tubes including finals. All for \$575.
7 xtra crystals with R4A
R4A separate \$225.
T4X separate \$225.
FR4 Digital Readout \$150.
Kenwood TS 520 80-10 mtr. Xcyr, AC/12V. Nice condition \$475.
Swan WM 3000 2KW peak reading watt/SWR meter 110 AC \$70.
Astro RS7-A regulated 7 amp p/s \$50.
Hallicrafter S40B Gen. Cov. Rcvr. \$65.
Hallicrafter SX 110 Gen. Cov. Rcvr. \$65.
Hallicrafter S 120 Gen. Cov. Rcvr. \$50.
Hallicrafter SR 150 80-10 mtr. Xcyr, w/ p/s and speaker in matching cabinet-mike and manual \$250.
Heath HW 101 80-10 mtr. Xcyr, p/s, mike \$250.

BOOKS

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Consignment accepted w/ 10% commission
Heath SB 300 Rcvr w/ 2 mtr conv. 80-10 mtr. Ham rcvr, all filters \$150.
Hallicrafter HT 37 80-10 mtr. transmitter w/ TR relay \$100.
Homebrew 900W linear. 4-811A's, small sized and good power.
P/S 9½ w X 13½ d X 12 h, Amp 10 w X 14 d X 11 h \$200.

NOVICE CLASSES

The spring novice classes will begin March 16 at North Junior High at 7:30 p.m. The schedule of Tuesday night code and Thursday radio theory will continue with NØDV and KBØKQ instructing. Pass the word!!

FOR SALE: Swan 400 with AC/DC power supply and mobile VFO. Recent factory reconditioned. \$200.
Regency HR 212 2M transceiver \$40. Dave NØDV 473-0293.

FOR SALE: Yaesu FT 101EE, fan & CW filter. Excellent condition — \$575. Call after 6 p.m. WBØMHP 599-9605.



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EDUCATION (cont.)

On the other side of the room, Don was talking about public service and actually calling someone's mom on the auto patch. He let them all learn their names in Morse Code and even showed them where RF begins above the audio spectrum. He talked of times around the world and how we must all use UTC so we're all talking about the same time and date. We talked about the problems in Poland and what SP hams are doing.

We just plain ran out of time! The kids and teachers (including others who wandered by) wanted us to come back and do it all again. Needless to say, we agreed.

The second time around was a continuation of the first and all had a great time. We even made a CW QSO just to prove there was information in all those dits and dahs. Many students had thought of lots of questions for us on the return. We left many with a real good feeling for ham radio.

The kids were great about sending out QSL cards and putting a note on the back of each one. All of our contacts have returned cards too! Even got Del. and W. Va. cards.

If this sounds like fun, you're right. I'll bet you could do it too. Most teachers and kids are really looking for new and different ways to get at some of the stuff that this world is made of. Ham radio offers this chance. Put out a little effort to approach your local school people about a ham radio demonstration. Social studies, you bet; English also a possibility; science, a natural; Math, yes; Geography, for sure. Any class could benefit from your being there. I believe you'll learn something too!

73 & see you in class
Dave, NØDV

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BOARD MINUTES

The meeting was called to order at the home of Tom, ADØQ. Those present were Al, ADØZ; Les, WDØGTA; Bud, NØDDF; Karl, K4DQ; Mark, KAOJXW; and Greg, KAOFOZ.

The Swapfest was discussed with the primary date set for April 18th and a secondary date of April 25th. Rosie will chair the concession committee. Greg will write the letter requesting the hangar at Peterson Field. Ken is arranging door prizes and Mark will handle publicity.

The informal net will meet the first and third Wednesday of the month at 7:30 p.m. on 28.845 and 146.52 MHz. Novices suggested a monitor of 28.125.

Hats and jackets were discussed with a motion that the colors be gold with dark brown lettering. Caps would be similar. The motion passed.

A fox hunt was scheduled for March 13th. Parties will meet at King's Country (Circle at Fountain at 10:00 a.m.)

A motion was passed allowing Don Lohse, KBØKQ to have the club typewriter cleaned/repared as needed.

The treasurer's report indicated a fund of \$1,914.21. Bills for Zero Beat were \$121.00; leaving a balance, as of 2-10-81; of \$1,793.00 (sic.)

Les reviewed the old by-laws and presented a rough draft for discussion. Board members will receive copies for review.

The meeting adjourned at 9:30 p.m. with the next meeting scheduled at Les', 2542 E. Bijou, on March 15th at 7:30 p.m.

Respectfully submitted,
Mark, KAOJXW

For Sale: IC-HM9, speaker, microphone for Icom 2A/2AT \$20.00. KØUNS 599-3119.

NEW ADVERTISER

We welcome a new advertiser to Zero Beat this month. Miley's Radio in Florence, run by Jess Miley KOTAA, has lots of goodies for you to check out. Support your Zero Beat advertisers!!

SWAPFEST

The date for the PPRAA Swapfest has been tentatively set as Sunday, April 18. Location is Pete Field, same place as last year. Start cleaning your shack. People who want to help in set up etc., make yourselves known!!

For Sale: Kenwood TS 130V. Call Larry KOUKO after 6 p.m. 596-8883

FOR SALE: Six meter USB-LSB-SW-AM station includes Heath HA-20 transmitter, Heath HX-30 120 watt linear amplifier, Ameco CN 6 to 10 meter converter, Ameco PS-1 power supply, coaxial antenna relay, Cush Craft A50-3 3 element beam, Drake TV-1000 LP low-pass filter (not required but it is good insurance). Complete with all interconnecting cables and manuals (except Ameco). All that is needed is your 10 meter receiver and coax to go between the transmitter and antenna and your in business with a very high quality medium power six meter station. All equipment in excellent condition. \$250.00 complete. Ray Uberecken AAØL 495-3544.

ADVERTISING NOTICE

Zero Beat will gladly run any classified ad submitted to it. However, classifieds will run for **one** month only, unless the advertiser notifies Zero Beat to continue the ad. If more than one item is listed, please keep us informed as to what sold, so that the ads are accurate. Commercial advertisers are welcome to change or update their ads whenever necessary. The ads in Zero Beat are useful to our readers, let's keep them up to date and accurate.

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